

## CDMA MICROCELL TRANSMITTER

The Gecko™ is a portable, battery-powered 1/2 watt CDMA modulated transmitter used for indoor coverage testing. The Gecko is ideal for CDMA microcell set-up and evaluating network performance. In a typical application, one or more Geckos are placed throughout an

area of interest and set to different base station PN offsets; while measuring and recording Ec/Io measurements using one of BVS's portable CDMA signal strength meters such as Hummingbird™ and Raven™.

### FEATURES

- Completely self-contained module design
- Dynamically adjustable power control from 1 milliwatt to 500 milliwatt output
- Infrared remote control adjusts power output, frequency and ON / OFF all at a distance of 25 feet
- Super bright 128 x 128 graphic LCD with backlight for viewing in all light conditions
- Removable rechargeable 9 volt battery (Makita Ni-Cad available at Home Depot)
- Lightweight design is ideal for "stick-up" applications
- Precision output held within  $\pm 0.5$  dB
- Optional connection to Rhino rubidium frequency source for precise base station PN offsets [0-511]



### CONNECT TO A RHINO FOR PRECISE BASESTATION PN:

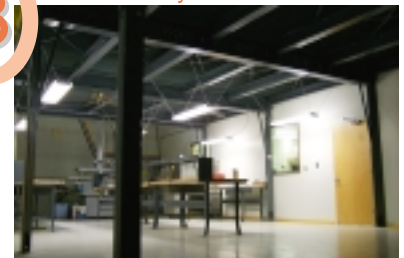
1 Acquire GPS lock with Rhino



2 Connect Gecko to the Rhino



3 Transmit any PN offset from anywhere that GPS may not be available



The Gecko is just one of many exceptional design solutions from Berkeley Varitronics Systems. Call us today for more information:

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# 1/2 WATT PORTABLE CDMA TRANSMITTER

## SPECIFICATIONS

FREQUENCY RANGE	PCS and Cellular frequencies
FREQUENCY STEP SIZE	30, 50 kHz or 1.25 MHz
FREQUENCY STABILITY	±2.0 ppm (short term) 30° to 125° F
FREQUENCY STABILITY	±0.5 ppm (aging maximum for 1 year)
MODULATION	I and Q pilot codes (IS-95)
OUTPUT FILTERING	Digital FIR
OUTPUT POWER	0.0 dBm to 27.0 dBm ±1.0 dB
PASSBAND FLATNESS	±0.5 dB maximum
POWER STEPS	1.0 dB
OUTPUT	50 Ω with TNC Female
OUTPUT VSWR	<2:1
OUTPUT LOAD VSWR	>100:1
DISPLAY	128 x 128 Graphic STN LCD
BACKLIGHT	LCD
CONTROLS	Direct enter via 14 button keypad Rotary optical encoder (push to choose) Infrared remote keypad (25' operational range)
DC POWER	Internal (removable) Ni-Cad rechargeable cells External DC power supply via 2.5mm slip jack
CHARGER	2 hour external recharge time with 110 VAC
WEIGHT	5 pounds with battery
SIZE	6-1/2" wide x 8-1/2" long x 3-1/4" deep
OPTIONS	Connection to Rhino rubidium frequency source providing precise base station PN offsets [0-511]

